

## Allgemeine Informationen

**Katalog-Nr.:**  
19694-1-AP

**Größe:**  
150ul, Konzentration: 500 µg/ml von Nanodrop und 260 µg/ml durch die Bradford-Methode mit BSA als Standard;

**Wirt:**  
Kaninchen

**Isotyp:**  
IgG

**GenBank-Zugangsnummer:**  
NM\_001017915

**GeneID (NCBI):**  
3635  
**Vollständiger Name:**  
inositol polyphosphate-5-phosphatase, 145kDa

**Berechnete Masse:**  
133 kDa

**Beobachtete Masse:**  
145 kDa

**Reinigungsmethode:**  
Antigen-Affinitätsreinigung

**Empfohlene Verdünnungen:**  
WB 1:200-1:1000  
IP 0.5-4.0 µg für IP und 1:200-1:1000 für WB  
IHC 1:100-1:400

## Anwendungen

**Geprüfte Anwendungen:**  
IHC, IP, WB, ELISA

**In Publikationen genannte Anwendungen:**  
IHC, WB

**Getestete Reaktivität:**  
Human, Maus, Ratte

**Zitierte Arten:**  
Human, Maus

**Hinweis-IHC: Antigenmaskierung mit TE-Puffer pH 9,0 empfohlen. (\*) Wahlweise kann die Antigenmaskierung auch mit Citratpuffer pH 6,0 erfolgen.**

**Positivkontrollen:**

**WB:** Jurkat-Zellen, Raji-Zellen, Ramos-Zellen, THP-1-Zellen

**IP:** Ramos-Zellen,

**IHC:** humanes Tonsillitisgewebe,

## Hintergrundinformationen

INPP5D, also named as SHIP, SHIP1, SIP-145 and hp51CN, belongs to the inositol-1,4,5-trisphosphate 5-phosphatase family. INPP5D is phosphatidylinositol (PtdIns) phosphatase that specifically hydrolyzes the 5-phosphate of phosphatidylinositol-3,4,5-trisphosphate (PtdIns(3,4,5)P<sub>3</sub>) to produce PtdIns(3,4)P<sub>2</sub>, thereby negatively regulating the PI3K (phosphoinositide 3-kinase) pathways. INPP5D acts as a negative regulator of B-cell antigen receptor signaling. It mediates signaling from the FC-gamma-R1B receptor (FCGR2B), playing a central role in terminating signal transduction from activating immune/hematopoietic cell receptor systems. INPP5D acts as a negative regulator of myeloid cell proliferation/survival and chemotaxis, mast cell degranulation, immune cells homeostasis, integrin alpha-IIb/beta-3 signaling in platelets and JNK signaling in B-cells. INPP5D regulates proliferation of osteoclast precursors, macrophage programming, phagocytosis and activation and is required for endotoxin tolerance. It is involved in the control of cell-cell junctions, CD32a signaling in neutrophils and modulation of EGF-induced phospholipase C activity. It is a key regulator of neutrophil migration, by governing the formation of the leading edge and polarization required for chemotaxis. It modulates FCGR3/CD16-mediated cytotoxicity in NK cells. It mediates the activin/TGF-beta-induced apoptosis through its Smad-dependent expression. INPP5D may also hydrolyze PtdIns(1,3,4,5)P<sub>4</sub>, and could thus affect the levels of the higher inositol polyphosphates like InsP<sub>6</sub>. This antibody is specific to INPP5D.

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Ruriko Suzuki	31339552	Eur J Immunol	WB
Christina E Murray	30029687	Acta Neuropathol Commun	IHC
Qiaofen Fu	30720128	Oncol Rep	WB,IHC

## Lagerung

**Lagerungsbedingungen:**

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

**Lagerungspuffer:**

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

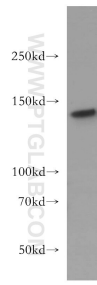
Aliquotieren ist nicht notwendig bei -20°C Lagerung

**\*\*\* 20ul-Größen enthalten 0.1% BSA**

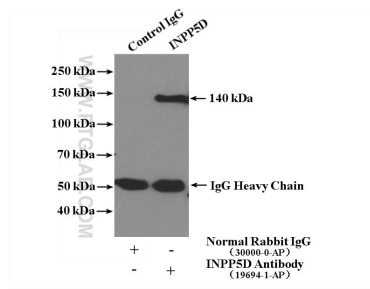
For technical support and original validation data for this product please contact:  
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
 E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
 W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

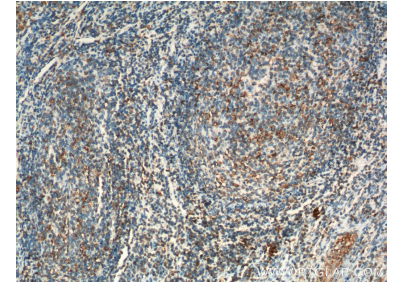
## Ausgewählte Validierungsdaten



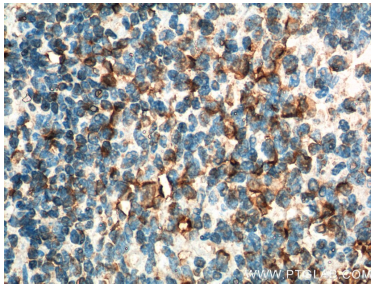
Jurkat cells were subjected to SDS PAGE followed by western blot with 19694-1-AP (INPP5D antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



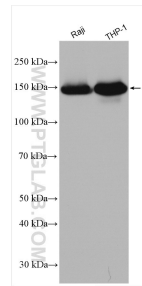
IP result of anti-INPP5D (IP:19694-1-AP, 4ug; Detection:19694-1-AP 1:300) with Ramos cells lysate 3600 ug.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 19694-1-AP (INPP5D Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 19694-1-AP (INPP5D Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 19694-1-AP (INPP5D antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.